Early pandemic forecast for Luxembourg M: multi-output M: multi-output M: repeated single-output (deaths) (deaths + mobility) (deaths) Prediction Prediction Prediction 15 15 Truth Truth Truth 10 10 5 5 0 0 10 12 10 12 6 8 10 Days since April 22 2020 Days since April 22 2020 B: LSTM (deaths) B: Bi-LSTM (deaths) B: GRU (deaths + mobility) Prediction Prediction Prediction 15 15 Truth Truth Truth 10 10 5 5 12 12 10 8 10 12 10 Days since April 22 2020 Days since April 22 2020 B: ARIMA wavelet **B**: Persistence Prediction Prediction 15 15 Truth Truth 10

